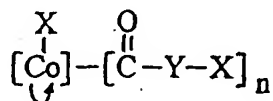


ABSTRACT OF THE INVENTION

A compound useful for *in vivo* imaging of organs and tumors is provided of formula:



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wherein  $\begin{array}{c} \text{X} \\ | \\ [\text{Co}] \\ | \\ \text{U} \end{array}$  is a cobalamin,  $\begin{array}{c} \text{O} \\ || \\ \text{C} \end{array}$  is derived from a corrin carboxylic acid group of said cobalamin, Y is a linking group and X is a chelating group, optionally comprising a detectable radionuclide or a paramagnetic metal ion, and n is 1-3.

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